

Calculate the pH of a **0.100** M HF solution pH = **2.10**
% ionization = $\frac{[H^+] \times 100}{[HF]} = \frac{7.91 \times 10^{-3} \times 100}{0.10} = 7.91\%$

Calculate the pH of a **0.010** M HF solution pH = **2.64**

$$[H^+] = 2.3 \times 10^{-3}$$

% ionization = $\frac{2.3 \times 10^{-3}}{0.010} \times 100 = 23\%$



1 mol solute 2 mol solute



increase concentration